

MILITARY SPECIFICATION

SEMICONDUCTOR DEVICE, TRANSISTOR TYPES
2N962 and 2N964

This amendment forms a part of Military Specification MIL-S-19500/258A(EC), dated 22 June 1964, and is approved for use by Naval Electronic Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

PAGE 1

- 1.4, First column: delete "Max" and substitute "Min". Also h_{FE} column: Delete " $V_{CE} = -0.3$ " and substitute " $V_{CE} = -0.3$ Vdc". Also V_{CE} (sat) column: Delete " I_c " and " I_b " and substitute " I_C " and " I_B " respectively (two places).

PAGE 2

3.4.1: Delete

- * 4.1: Delete and substitute:

"4.1 Qualification inspection. Qualification inspection shall not be required. First article inspection shall be required."

- * 4.2.1: Delete and substitute:

"4.2.1 Group A inspection. Group A inspection shall consist of the examinations and tests shown in table I on a 100% basis."

PAGE 3

- 4.7.3: Delete and substitute:

"4.7.3 Shock. The shock testing apparatus shall be capable of providing shock pulses of the specified peak acceleration, waveform, and pulse duration to the body of the device. The acceleration pulse, as determined from the unfiltered output of a transducer with a natural frequency greater than 10,000 cycles per second, shall be a half sine waveform with an allowable distortion not greater than ± 20 percent of the specified peak acceleration. The pulse duration shall be measured between the points at 10 percent of the peak acceleration during rise and at 10 percent of the peak acceleration during decay. Absolute tolerance of the pulse duration shall be ± 40 percent of the specified duration."

MIL-S-19500/258A(EC)
AMENDMENT 4

PAGE 4

* Table I, LTPD and MIN, REJ. NO. columns: Delete. Make this same change on pages 5, 6, and 7.

PAGE 5

Table I, subgroup 4, Small-signal short circuit forward-current transfer ratio, MIL-STD-750 METHOD column: Delete "3206" and substitute "3306".

PAGE 6

Table I, subgroup 5, Storage plus fall time (second listing), conditions column: Delete " $V_{BE(0)} = 1.25 \text{ mAdc}$ " and substitute " $V_{BE(0)} = 1.25 \text{ Vdc}$ "; Max limits column: Delete "180" and substitute "100".

PAGE 7

Table II, subgroup 3, shock test, conditions column: Add "Pulse duration = 0.5 ms".

PAGE 8

Table II, End points for subgroups 2, 3, 5, 6, and 7, Static forward-current transfer ratio, conditions column: Delete " $I_C = 10 \text{ mAdc}$ " and substitute " $I_C = -10 \text{ mAdc}$ ".

PAGE 9

Figure 1, note 2, delete and substitute:

"2. Maximum diameter leads at a gaging plane 0.054 ± 0.001 , -0.000 below the base seat to be within 0.007 of their true location relative to maximum width tab and to the maximum 0.230 diameter measured with a suitable gage. When gage is not used, measurement will be made at base seat."

MIL-S-19500/258A(EC)
AMENDMENT 4

The margins of this amendment are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

Custodian:
Navy-EC

Agent:
DLA-ES

Preparing activity:
Navy-EC

(Project 5961-N844)